

**WE CLAIM:**

1                   1.     A system for managing the routing of information from a source  
2     to a destination through a plurality of networks, wherein at least one of said networks  
3     is a packet network, said system comprising:

4                   a routing processor for receiving a routing query signal from said  
5     source, said signal specifying said destination to which said information will be  
6     routed; and

7                   a memory for storing at least one characteristic of said source; said  
8     memory storing at least one characteristic of said destination;

9                   wherein said processor determines a route for the transmission of said  
10    information based on said routing query signal and on said characteristics stored in  
11    said memory.

12                  2.     The system according to claim 1, wherein a characteristic of said  
13    destination includes information relating to the equipment at said destination.

14                  3.     The system according to claim 1, wherein said source subscribes  
15    to a fixed wireless service network.

16                  4.     The system according to claim 3, wherein said destination  
17    subscribes to the same fixed wireless service network as said source.

18                  5.     The system according to claim 3, wherein said destination  
19    subscribes to a PSTN service network.

1                   6.     The system according to claim 1, wherein a characteristic of said  
2 destination includes information identifying the service to which said destination  
3 subscribes.

4                   7.     The system according to claim 1, wherein said information  
5 includes digitized voice information.

6                   8.     The system according to claim 1, wherein said signal is a DTMF  
7 signal.

8                   9.     A system for routing information to a destination, said system  
9 comprising:

10                   a plurality of networks, wherein at least one of said networks is a  
11 packet network and wherein each network is linked to at least one other network by a  
12 communication medium; and

13                   a routing processor for receiving a routing query signal, said routing  
14 query signal, including at least one characteristic of said destination, said routing  
15 processor determining a transmission path for routing said information through said  
16 plurality of networks;

17                   wherein said routing processor determines said transmission path based  
18 on said routing query signal and on said received characteristics.

19                   10.    The system according to claim 9, wherein said destination  
20 subscribes to a fixed wireless service network.

1                   11.    The system according to claim 9, wherein said destination  
2 subscribes to a PSTN service network.

3                   12.    The system according to claim 9, wherein said characteristics of  
4 said destination identify the type of service to which said destination subscribes.

5                   13.    A method for managing the routing of information to a  
6 destination through a plurality of networks, wherein at least one of said networks is a  
7 packet network, each network being linked to at least one other network by a  
8 communication medium, said method comprising the steps of:

9                         receiving a routing query specifying a destination to which said  
10 information will be routed at a routing processor;

11                        storing at least one characteristic of said destination; and

12                        determining a route for the transmission of said information based on  
13 said routing query and on said stored characteristics.

14                   14.    The method according to claim 13, wherein said step of storing  
15 characteristics includes the step of storing at least one address for said destination.

16                   15.    The method of claim 13, wherein said step of determining  
17 includes the step of identifying the subscriber service of said destination.

18                   16.    The method for managing the routing of information to a  
19 destination through a plurality of networks, wherein at least one of the networks is a

1 packet network and wherein each network is linked to at least one other network by a  
2 communication medium, said method comprising the steps of:

3 receiving a routing query signal from a source of one of said networks  
4 and information concerning at least one characteristic of said destination; and

5 determining a transmission path for routing said information through  
6 said networks, said transmission path comprising at least one network in addition to  
7 said packet network, wherein said step of determining is based on said received  
8 routing query signal and on said received characteristics.

9 17. A method for managing the routing of information to a  
10 destination through a plurality of networks, wherein at least one of the networks is a  
11 packet network and wherein each network is linked to at least one other network by a  
12 communication medium, said method comprising the steps of:

13 receiving a routing query signal including routing requirements from a  
14 source; and

15 determining a transmission path for routing said information through  
16 said networks, wherein said transmission path comprises network elements of at least  
17 one of said networks in addition to network elements of said packet network.

18 18. The method according to claim 17, wherein said step of  
19 determining a transmission path includes the step of identifying the subscriber service  
20 of said destination.

1                   19.    A method for managing the routing of information from a  
2 subscriber of a fixed wireless service network to a destination through a plurality of  
3 networks, wherein at least one of said networks is a packet network and wherein each  
4 network is linked to at least one other network by a communication medium, said  
5 method comprising the steps of:

6                   receiving a routing query signal from said subscriber of said fixed  
7 wireless service network;

8                   storing information concerning at least one characteristic of said  
9 destination at a routing processor;

10                  determining a transmission path for routing said information through  
11 said networks, said transmission path comprising elements of at least one of said  
12 networks in addition to elements of said packet network, wherein said step of  
13 determining said transmission path is based on said routing query and said stored  
14 characteristics;

15                  sending a routing response signal from said routing processor to said  
16 subscriber; and

17                  routing said information over said path.